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Akaogi et al.

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(54) **CONTAINER CLOSURE**

USPC 220/254.6, 254.2, 254.4, 255, 259.1,
220/259.2, 263, 254.3

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(2), (4) Date: **May 17, 2013**

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2012.

(30) **Foreign Application Priority Data**

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B65D 47/08 (2006.01)

B65D 43/16 (2006.01)

(57)

ABSTRACT

(52) **U.S. Cl.**

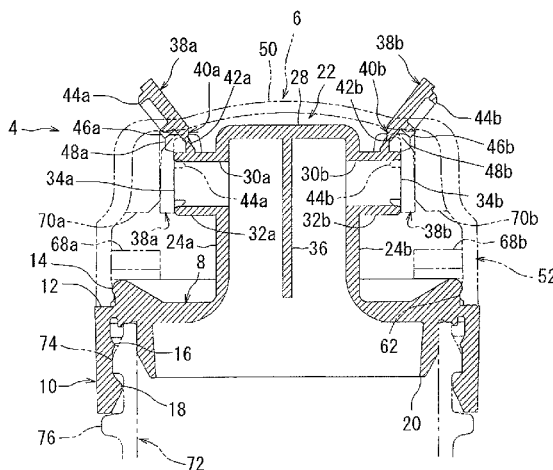
CPC **B65D 51/18** (2013.01); **B65D 47/0814**
(2013.01); **B65D 47/0885** (2013.01); **B65D**
2251/0025 (2013.01); **B65D 2251/0087**
(2013.01)

A container closure integrally formed from a synthetic resin includes a body, which has an upper surface wall, and an outer lid connected to the body so as to be pivotable between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is opened, wherein a raised portion having discharge ports formed on both sides is disposed on the upper surface wall of the body, the discharge ports formed on both sides of the raised portion are opened when the outer lid is pivoted to the open position, while the discharge ports formed on both sides of the raised portion are sealed fully reliably when the outer lid is pivoted to the closed position.

(58) **Field of Classification Search**

CPC B65D 47/0809; B65D 47/0823; B65D
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B65D 47/0871; B65D 47/0876; B65D
2547/06; B65D 51/18; B65D 47/0885; B65D
47/0814; B65D 2251/0025; B65D 2251/0087

7 Claims, 18 Drawing Sheets



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Fig. 1

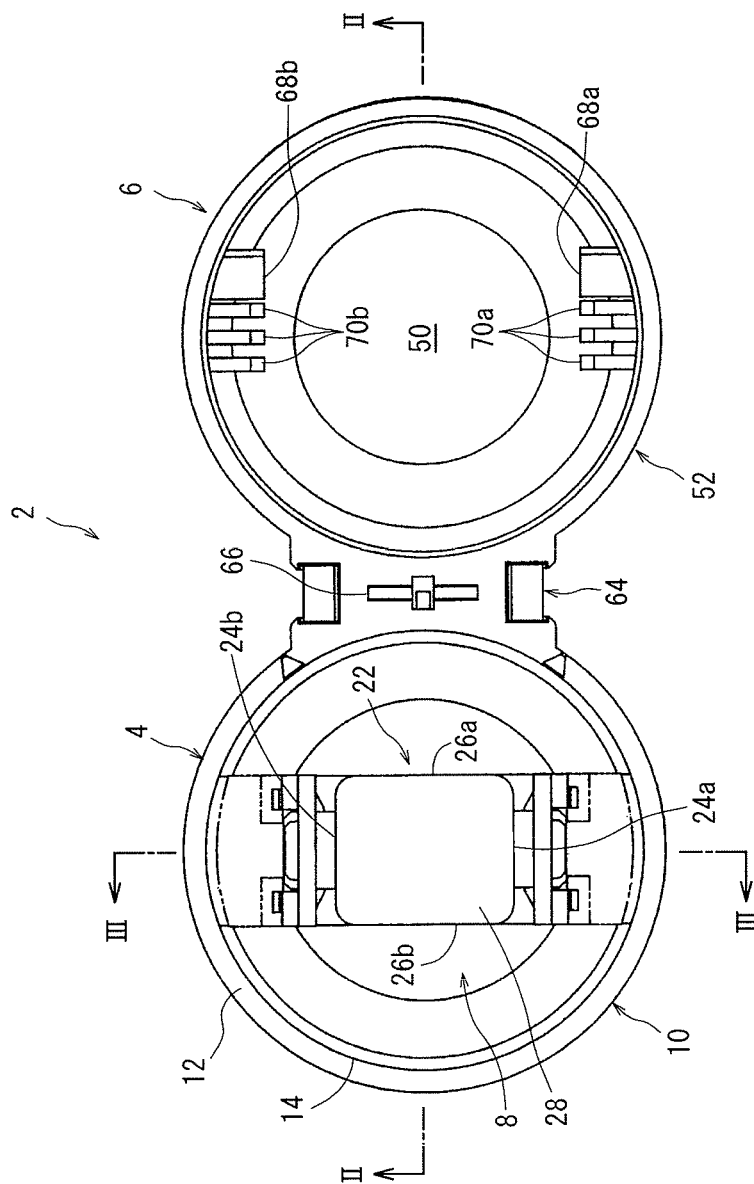


Fig. 2

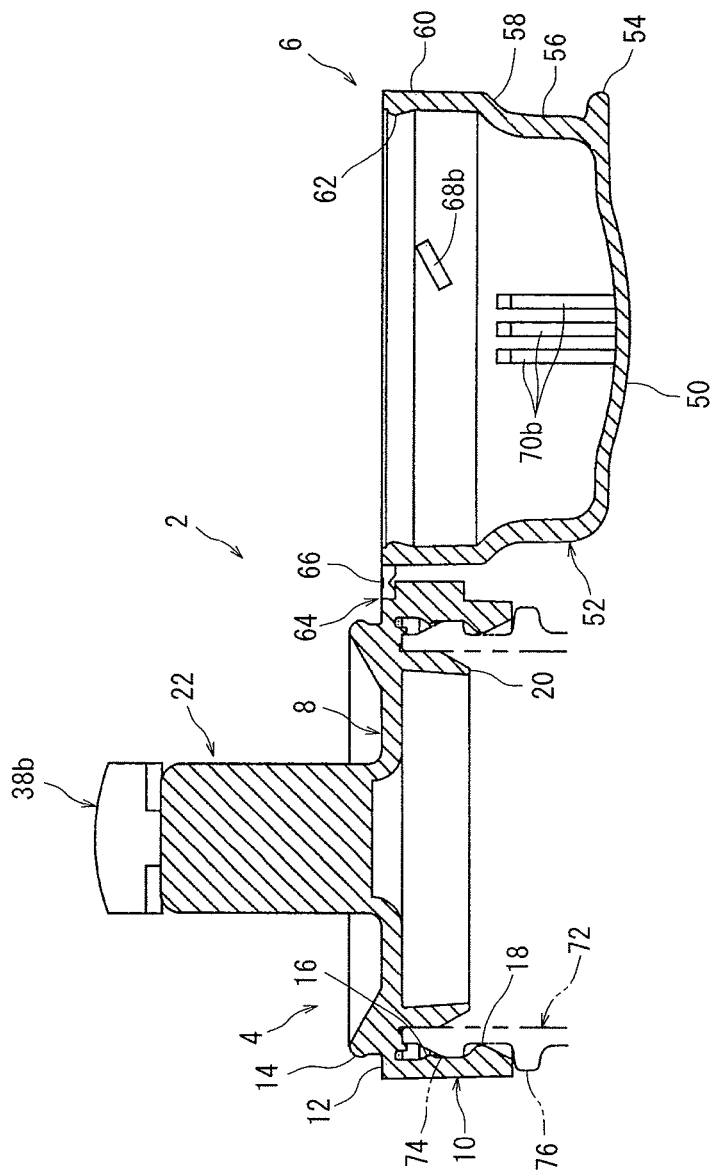


Fig. 3

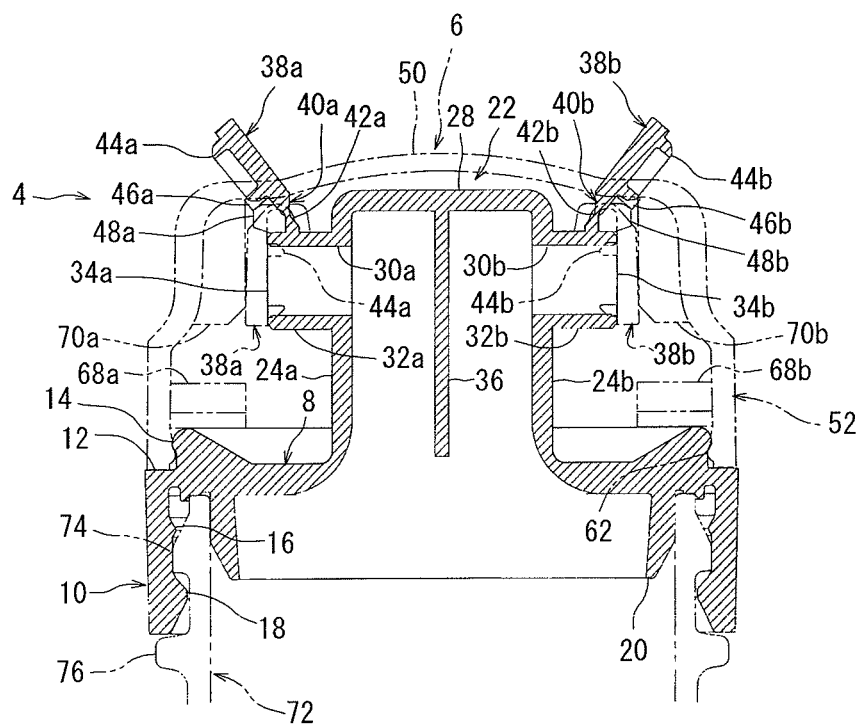


Fig. 4

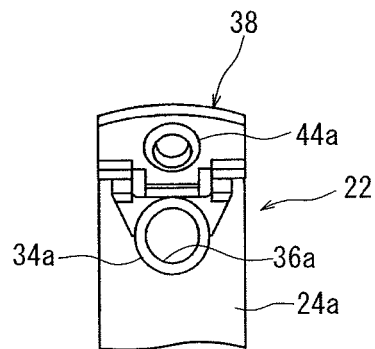


Fig. 5

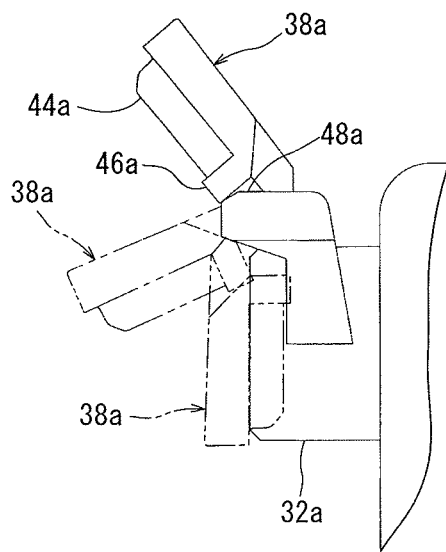


Fig. 6

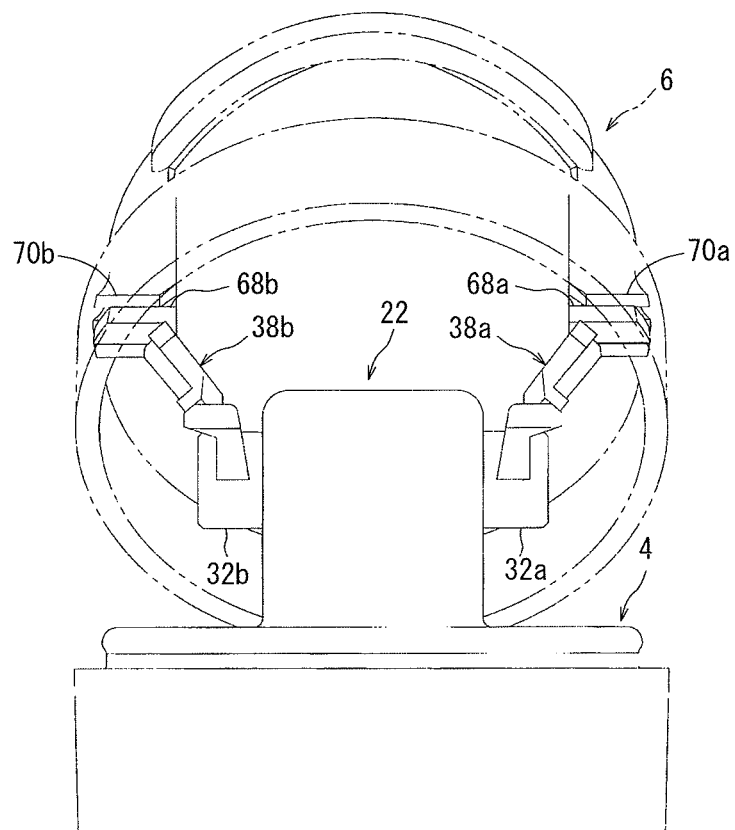


Fig. 7

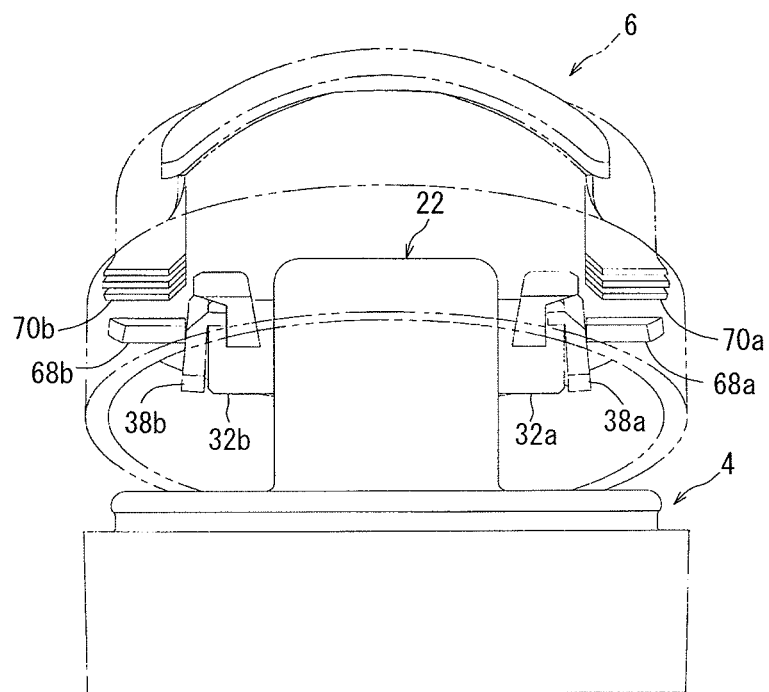


Fig. 8

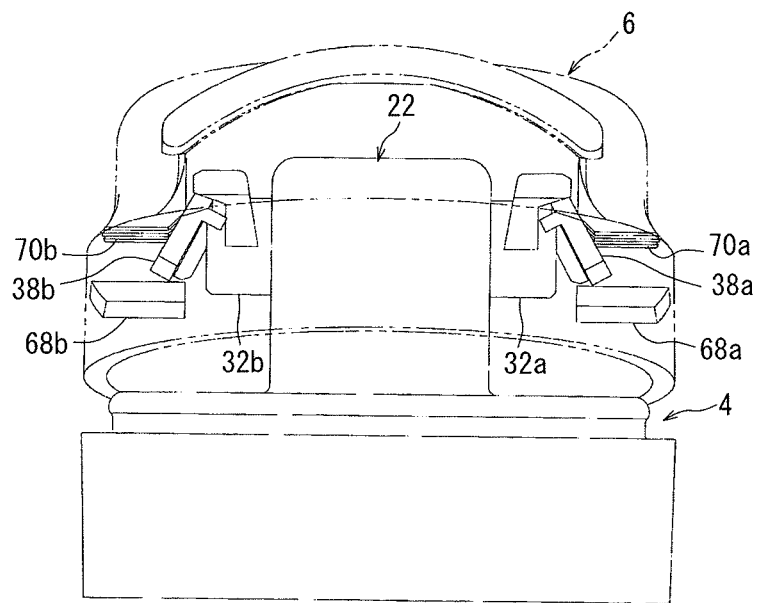


Fig. 9

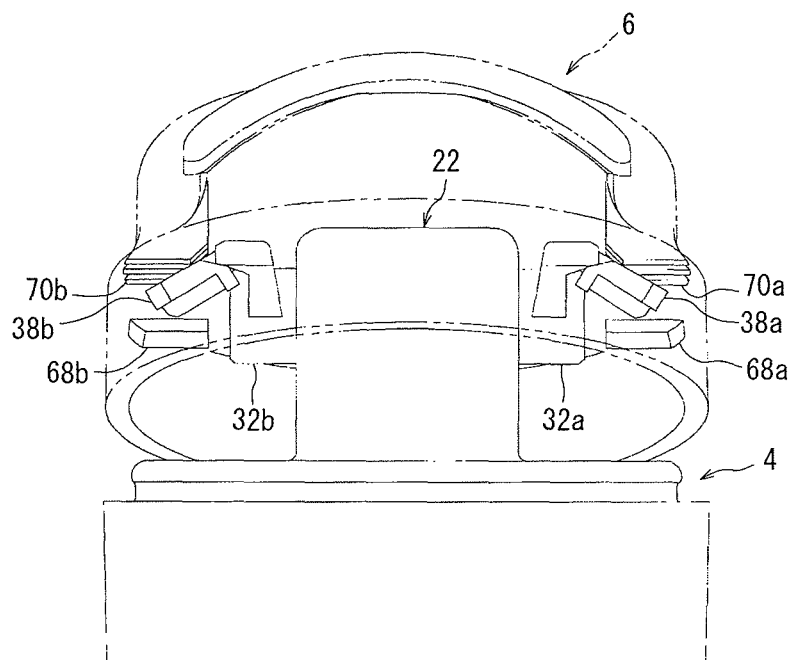


Fig. 10

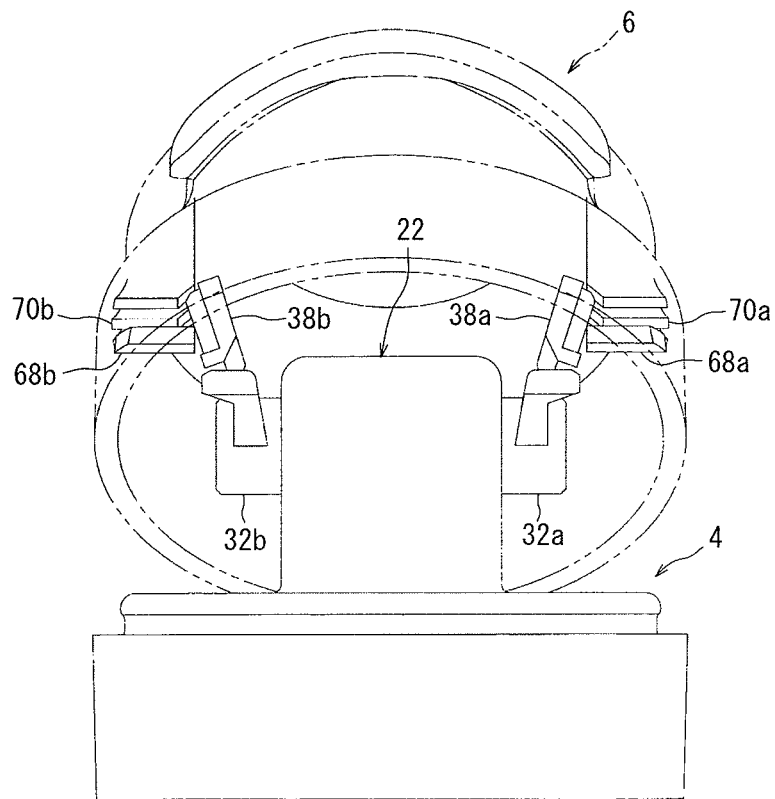
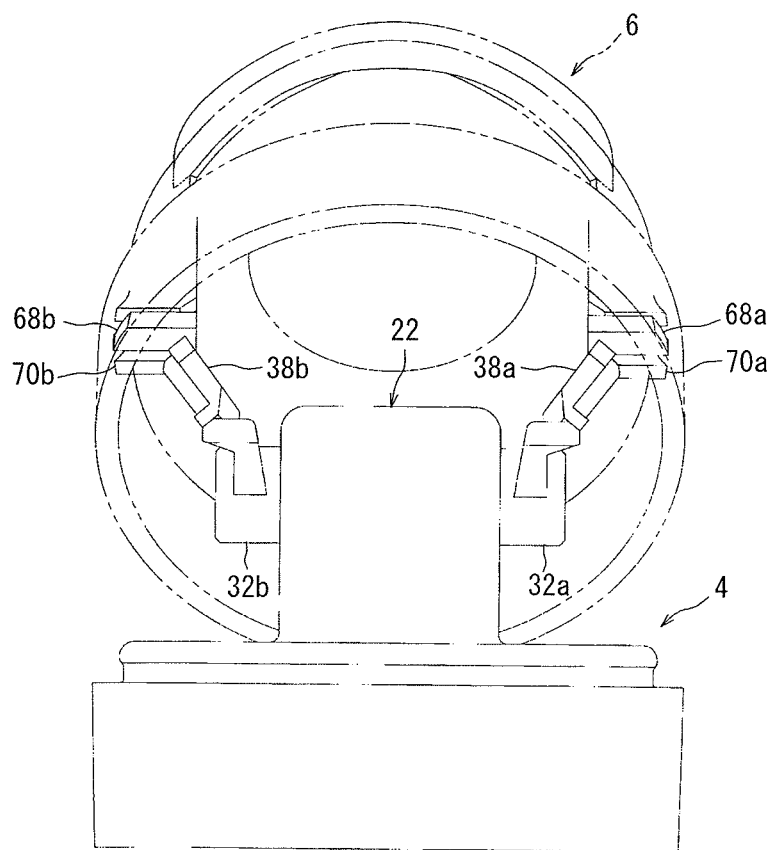


Fig. 11



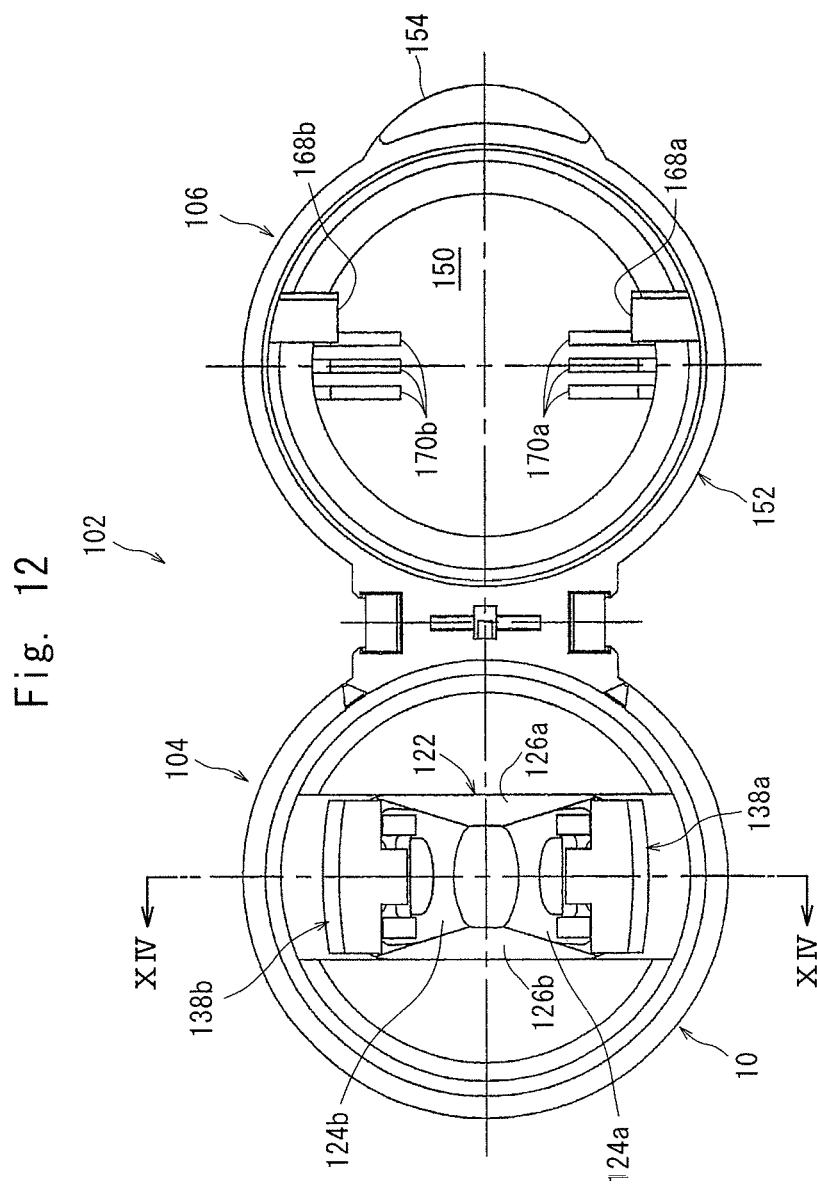


Fig. 13

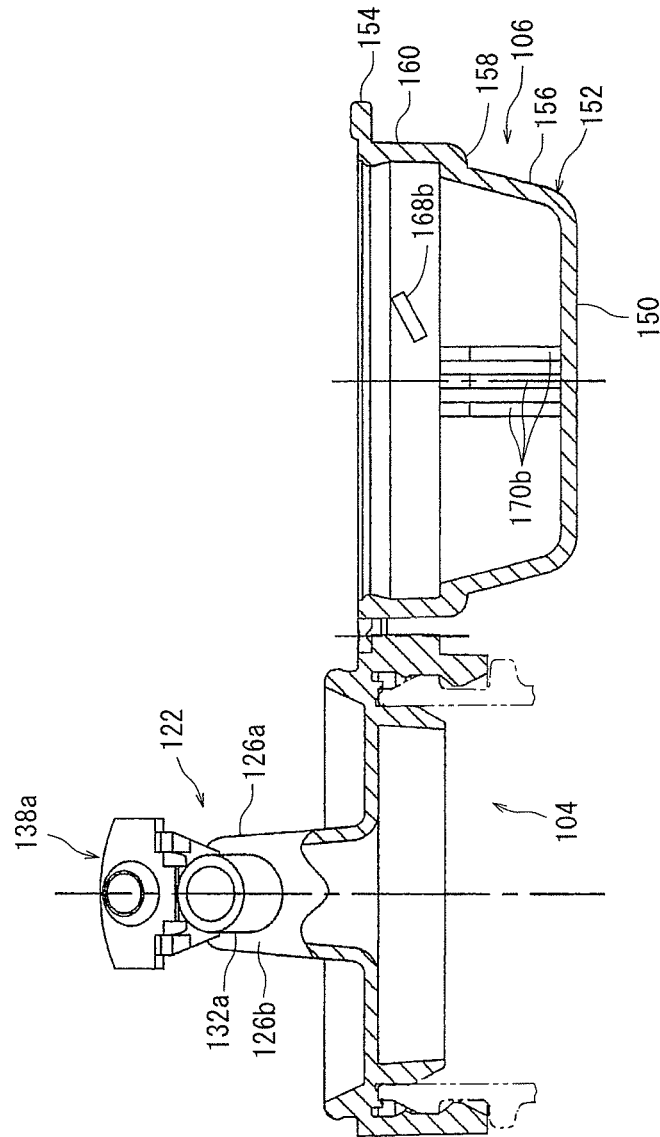
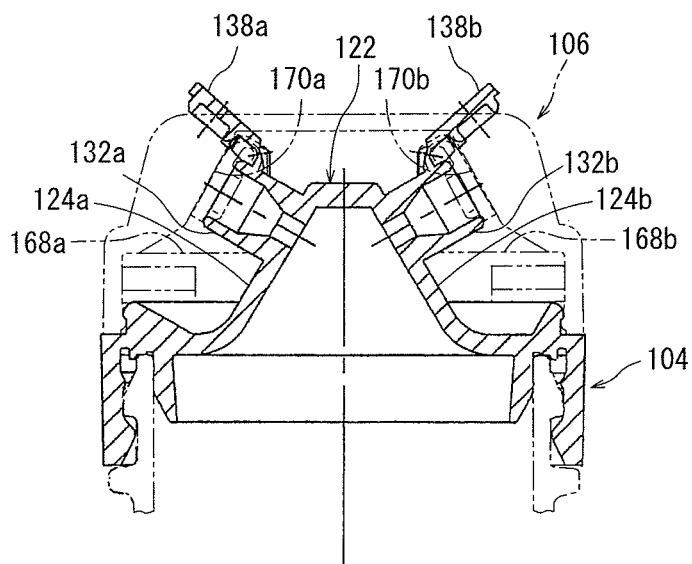


Fig. 14



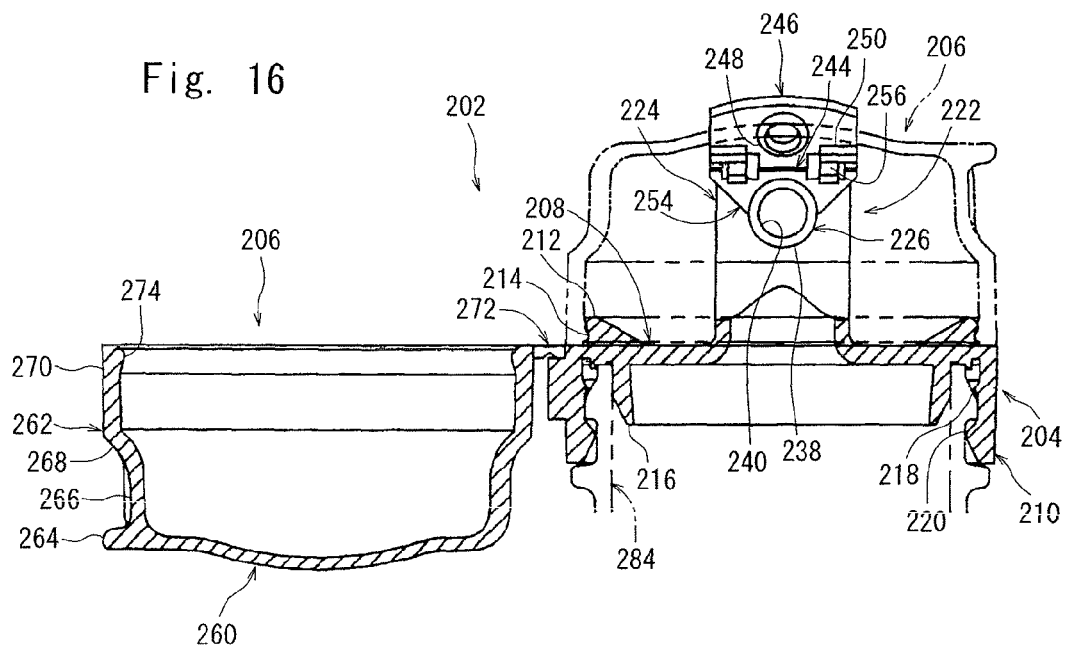
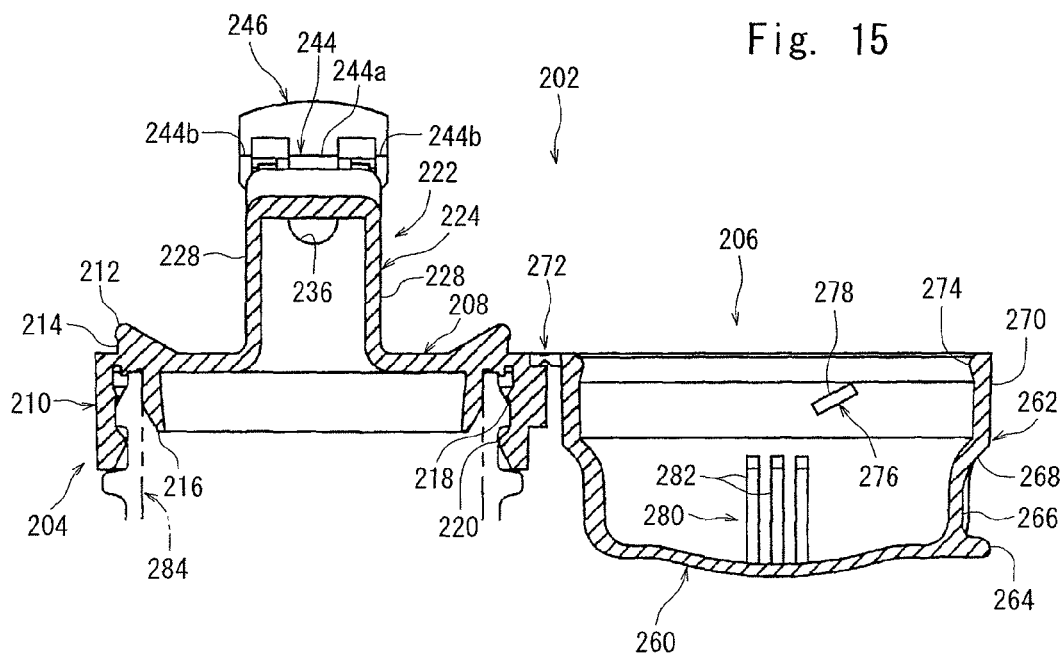


Fig. 17

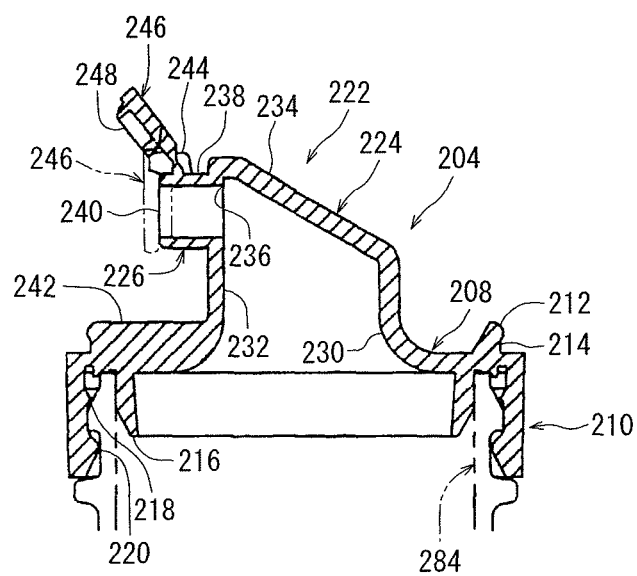


Fig. 18

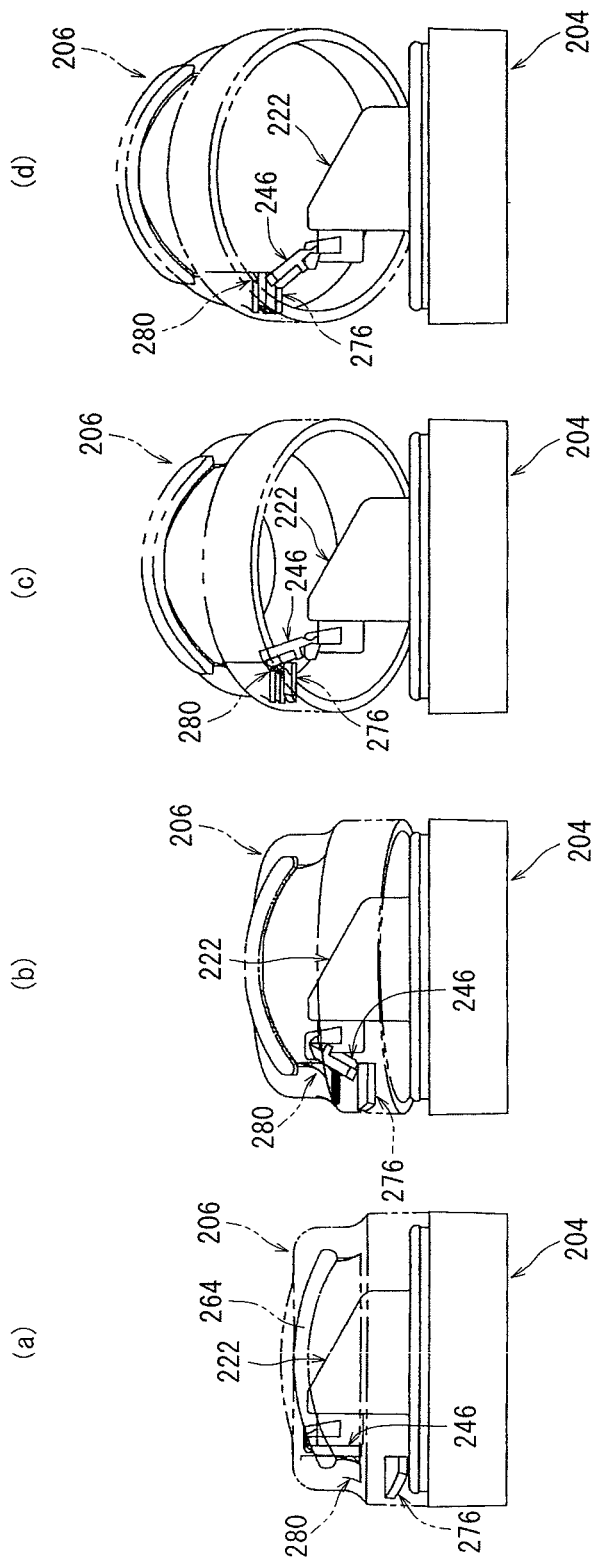
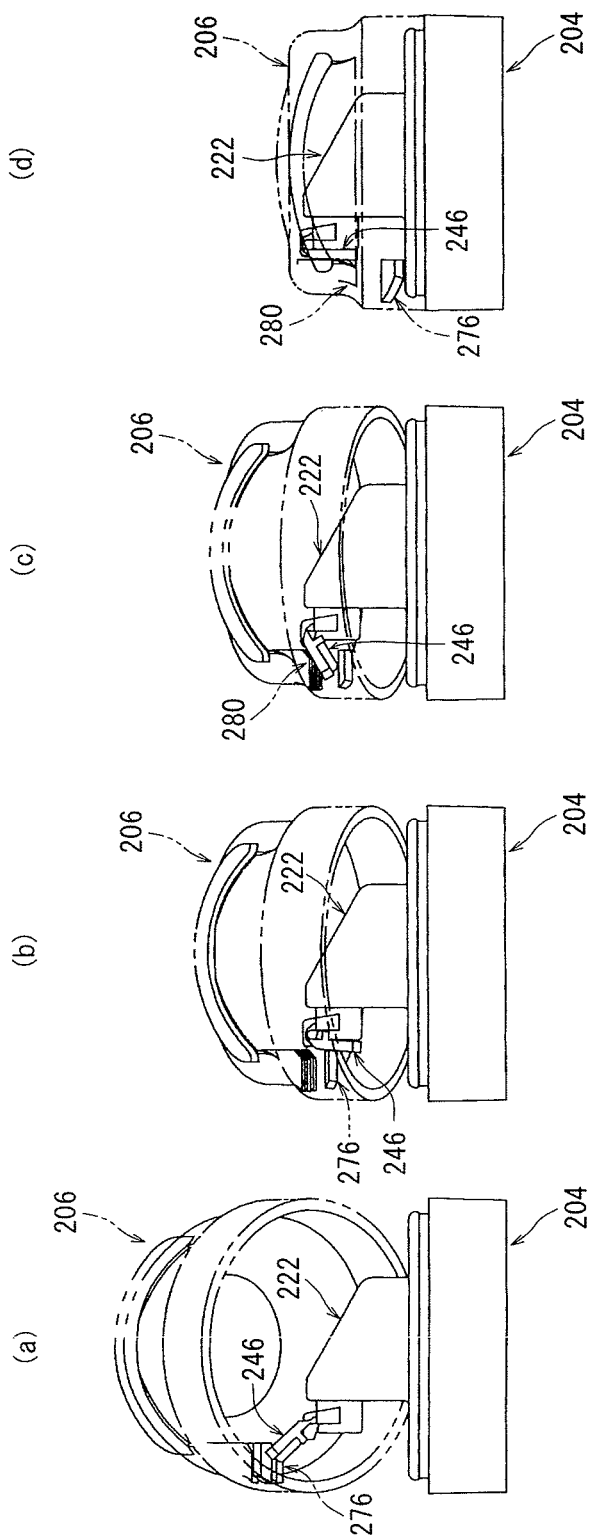


Fig. 19



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CONTAINER CLOSURE

TECHNICAL FIELD

This invention relates to a container closure integrally formed from a synthetic resin, the container closure including a body which has an upper surface wall, and an outer lid connected to the body so as to be pivotable between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is opened, wherein a raised portion having discharge ports formed on both sides, or a single discharge tube is disposed on the upper surface wall of the body.

BACKGROUND ART

Patent Document 1 to be described below discloses a container closure integrally formed from a synthetic resin and including a body and an outer lid, as a container closure which is applied to a container formed from a suitable synthetic resin, such as polyethylene terephthalate, or glass and adapted for containing a seasoning such as soy sauce, in particular. The body has an upper surface wall, and a cylindrical side wall extending downwardly from the peripheral edge of the upper surface wall, while the outer lid has a top panel wall, and a cylindrical skirt wall extending downwardly from the peripheral edge of the top panel wall. The skirt wall of the outer lid and the side wall of the body are connected via first hinge means which defines a first pivot axis extending horizontally, and the outer lid can be pivoted, about the first pivot axis as a pivot center, between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is exposed. A raised portion rising upward and having discharge ports formed on both sides in the direction of the first pivot axis is disposed in a middle part of the upper surface wall of the body.

In discharging the contents of the container, the outer lid is pivoted to the open position to expose the upper surface wall of the body, accordingly, the raised portion, and then the container is tilted to direct downward one of the discharge ports formed in the raised portion. By so doing, the contents are discharged through the one of the discharge ports, and such discharge of the contents is promoted by the flow of outside air into the container through the other discharge port.

Patent Documents 2 and 3 to be described below each disclose a container closure integrally formed from a synthetic resin and including a body, which has an upper surface wall and a cylindrical side wall extending downwardly from the peripheral edge of the upper surface wall, and an outer lid, which has a top panel wall and a cylindrical skirt wall extending downwardly from the peripheral edge of the top panel wall, wherein the skirt wall of the outer lid and the side wall of the body are connected via first hinge means which extends horizontally, and the outer lid can be pivoted between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is exposed. A discharge tube extending out away from the first hinge means and having a discharge port formed at the front end is disposed on the top panel wall of the body. To the upper surface of the discharge tube, an inner lid is connected via second hinge means so as to be pivotable between a closed position at which the discharge port is covered and an open position at which the discharge port is opened. Interference means is disposed on the inner peripheral surface of the skirt wall of the outer lid. The interference means interferes with the inner lid to move the inner lid pivotally from the

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closed position to the open position while the outer lid is being pivoted from the closed position to the open position, whereafter the interference means is separated from the inner lid. Moreover, the interference means interferes with the inner lid to pivot the inner lid from the open position to the closed position while the outer lid is being pivoted from the open position to the closed position, whereafter the interference means is separated from the inner lid. Pressing means, which contacts the inner lid to force the inner lid into the closed position when the outer lid is pivoted from the open position to the closed position, is formed on the inner peripheral surface of the skirt wall and/or the inner surface of the top panel wall of the outer lid. The inner lid is a plate-shaped piece jutting out beyond opposite side surfaces of the discharge tube, and a seal ring engaging the discharge port is formed in a middle part of the inner surface of the inner lid. Stop projections are formed in opposite side parts of the inner surface of the inner lid, and receiving projections extending out upwards from the opposite side surfaces of the discharge tube are formed in the discharge tube. The stop projections ride resiliently over the receiving projections when the inner lid is moved pivotally from the closed position to the open position and when the inner lid is moved pivotally from the open position to the closed position.

PRIOR ART DOCUMENTS

Patent Documents

Patent Document 1: JP-A-2009-286468
Patent Document 2: JP-A-2008-74470
Patent Document 3: JP-A-2010-126191

SUMMARY OF THE INVENTION

Problems to be Solved by the Invention

The above-described container closure disclosed in Patent Document 1 poses the following problems to be solved: When the outer lid is located at the closed position, the inner peripheral surface of the skirt wall of the outer lid is brought into contact with the discharge ports formed on both sides of the raised portion, whereby it is attempted to seal both discharge ports. However, the inner peripheral surface of the skirt wall of the outer lid is cylindrical or truncated cone-shaped, and curved in the circumferential direction. Because of these facts, etc., sealing of the discharge ports becomes so insufficient that when the container topples over, the contents may leak.

The above-described container closures disclosed in Patent Documents 2 and 3, on the other hand, pose the following problems in connection with their usability: When the contents of a container formed from a suitable synthetic resin or glass are to be consumed, with the container closure being mounted on a mouth-and-neck portion of the container, a consumer, for example, grasps the container with the right hand, and pivots the outer lid of the container closure from the closed position to the open position with the use of the left hand. As a result, the discharge tube is exposed, with the discharge ports open, but the discharge ports of the discharge tube are open toward the consumer. Before discharging the contents through the discharge ports, therefore, it is necessary to release the grasp of the container once, and grasp the container again with the right hand or the left hand, while changing the direction of grasp. The operation of discharging the contents is thus tiresome.

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The present invention has been accomplished in the light of the above-mentioned facts. Its first technical challenge is to improve the above container closure disclosed in Patent Document 1 such that when the outer lid is pivoted to the open position, the discharge ports formed on both sides of the raised portion are opened, and when the outer lid is pivoted to the closed position, the discharge ports formed on both sides of the raised portion are sealed sufficiently reliably, with no special operation being required in addition to the pivotal movements of the outer lid for opening and closing.

A second technical challenge to the present invention is to improve the above container closures disclosed in Patent Documents 2 and 3 such that in discharging the contents of the container, there is no need to release the grasp of the container once and grasp the container again, and that after the container is grasped with the right hand, and the outer lid of the container closure is pivoted from the closed position to the open position with the use of the left hand, for example, the right hand is rotated in a suitable direction in the unchanged state, whereby the contents are allowed to be discharged through the discharge ports.

Means for Solving the Problems

The present inventors conducted in-depth studies and experiments, and have found that the above first technical challenge can be solved by connecting the inner lids to the raised portion via second hinge means, in association with each of the discharge ports formed on both sides of the raised portion, so as to be pivotable between the closed position at which the discharge ports are covered and the open position at which the discharge ports are opened; and by disposing interference means on the inner peripheral surface of the skirt wall of the outer lid, in association with each of the inner lids, such that the interference means interfere with the inner lids to pivot the inner lids from the open position toward the closed position while the outer lid is being pivoted from the open position to the closed position, and then the interference means ride over the inner lids and become separated from the inner lids, and that the interference means interfere with the inner lids to pivot the inner lids from the closed position toward the open position while the outer lid is being pivoted from the closed position to the open position, and then the interference means are separated from the inner lids.

That is, according to a first aspect of the present invention, there is provided, as a container closure solving the above-mentioned first technical challenge, a container closure integrally formed from a synthetic resin and including a body, which has an upper surface wall and a cylindrical side wall extending downwardly from a peripheral edge of the upper surface wall, and an outer lid, which has a top panel wall and a cylindrical skirt wall extending downwardly from a peripheral edge of the top panel wall, wherein the skirt wall of the outer lid and the side wall of the body are connected via first hinge means which defines a first pivot axis extending horizontally, and the outer lid is free to pivot, about the first pivot axis as a pivot center, between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is exposed; and a raised portion which rises upward and which has discharge ports formed on opposite sides thereof in a direction of the first pivot axis is disposed in a middle part of the upper surface wall of the body,

characterized in that inner lids are connected to the raised portion via second hinge means, in association with the discharge ports, respectively, so as to be pivotable between a

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closed position at which the discharge ports are covered and an open position at which the discharge ports are opened; and

interference means are disposed on an inner peripheral surface of the skirt wall of the outer lid, in association with the inner lids, respectively, such that the interference means interfere with the inner lids to pivot the inner lids from the open position toward the closed position while the outer lid is being pivoted from the open position to the closed position, and then the interference means ride over the inner lids and become separated from the inner lids, and that the interference means interfere with the inner lids to pivot the inner lids from the closed position toward the open position while the outer lid is being pivoted from the closed position to the open position, and then the interference means are separated from the inner lids.

Preferably, the interference means is composed of a tongue-shaped piece protruding radially inwardly from the inner peripheral surface of the skirt wall of the outer lid, and extending in a downwardly inclined manner away from the first pivot axis. It is preferred that pressing means be disposed on the inner peripheral surface of the skirt wall of the outer lid, in association with the inner lids, respectively, such that the pressing means contact outer surfaces of the inner lids to force the inner lids into the closed position while the outer lid is being pivoted from the open position to the closed position. Preferably, a barrier wall hanging down from a middle of an inner surface of an upper end wall of the raised portion to cut off from each other the discharge ports formed on the opposite sides of the raised portion in the direction of the first pivot axis is formed in the raised portion. Advantageously, the raised portion has opposite side walls on the opposite sides thereof in the direction of the first pivot axis, the opposite side walls extending vertically, and the discharge ports are defined at leading ends of discharge tubes protruding horizontally from the opposite side walls, respectively; or the raised portion has opposite side walls on the opposite sides thereof in the direction of the first pivot axis, the opposite side walls extending downwardly and being inclined bilaterally outwardly in the direction of the first pivot axis, and the discharge ports are defined at leading ends of discharge tubes, the discharge tubes extending out upwardly from the opposite side walls, respectively, and being inclined bilaterally outwardly in the direction of the first pivot axis. Preferably, stop projections are formed in opposite side parts of an inner surface of the inner lid, receiving projections as a pair are formed in the raised portion in correspondence with the stop projections, and the stop projections resiliently ride over the receiving projections when the inner lid is pivoted from the closed position to the open position.

According to a second aspect of the present invention, the aforementioned second technical challenge is solved by the configuration in which the direction of extension of the discharge tube is rendered not a direction in which the discharge tube goes away from the first pivot axis, but a direction along the first pivot axis.

That is, according to the second aspect of the present invention, there is provided, as a container closure solving the above-mentioned second technical challenge, a container closure integrally formed from a synthetic resin and including a body, which has an upper surface wall and a cylindrical side wall extending downwardly from a peripheral edge of the upper surface wall, and an outer lid, which has a top panel wall and a cylindrical skirt wall extending downwardly from a peripheral edge of the top panel wall, wherein the skirt wall of the outer lid and the side wall of the body are connected via first hinge means which defines a first pivot axis extending horizontally; the outer lid is free to pivot between a closed

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position at which the upper surface wall of the body is covered and an open position at which the upper surface wall is exposed; a discharge tube having a discharge port formed at a leading end thereof is disposed on the upper surface wall of the body; an inner lid is connected to an upper surface of the discharge tube via second hinge means, which defines a second pivot axis, so as to be pivotable between a closed position at which the discharge port is covered and an open position at which the discharge port is opened; and interference means is disposed on an inner peripheral surface of the skirt wall of the outer lid such that the interference means interferes with the inner lid to move the inner lid pivotally from the closed position to the open position while the outer lid is being pivoted from the closed position to the open position, and then the interference means rides over the inner lid and becomes separated from the inner lid, and that the interference means interferes with the inner lid to pivot the inner lid from the open position toward the closed position while the outer lid is being pivoted from the open position to the closed position, and then the interference means is separated from the inner lid,

characterized in that the discharge tube is extended out along the first pivot axis.

Preferably, the discharge tube is extended out parallel to the first pivot axis, or at an inclination angle of α , $0 \text{ degrees} < \alpha \leq 45 \text{ degrees}$, in a direction in which the discharge tube gradually separates from the first pivot axis toward the leading end. It is preferred that the interference means is composed of a tongue-shaped piece protruding radially inwardly from the inner peripheral surface of the skirt wall of the outer lid, and the tongue-shaped piece extends in a downwardly inclined manner away from the first pivot axis when the outer lid is located at the closed position and/or the second pivot axis extends upwardly obliquely away from the first pivot axis.

Effects of the Invention

With the container closure constituted in accordance with the first aspect of the present invention, when the outer lid is pivoted from the closed position to the open position, the inner lids are automatically pivoted from the closed position to the open position by the action of the interference means. Accordingly, simply by tilting the container in the required direction, the contents can be discharged through one of the discharge ports, and outside air can be flowed into the container through the other discharge port. When the outer lid is pivoted from the open position to the closed position, the inner lids are automatically pivoted from the open position to the closed position by the action of the interference means. As a result, the discharge ports formed on both sides of the raised portion are sealed. Sealing of the discharge ports does not depend on the skirt wall of the outer lid, but depends on the inner lids separately disposed. Thus, the discharge ports can be sealed fully reliably.

with the container closure constituted in accordance with the second aspect of the present invention, in a state where the container closure is mounted on the mouth-and-neck portion of the container, a consumer, for example, grasps the container with the right hand, and pivots the outer lid of the container closure from the closed position to the open position with the use of the left hand. As a result, the discharge tube is exposed, with the discharge port being open not toward the consumer, but in a direction nearly orthogonal to the right wrist of the consumer, namely, in a lateral direction. Thus, the contents can be discharged through the discharge

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port, simply by rotating the right wrist in a suitable direction, without the need to release the grasp of the container once and grasp the container again.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a plan view showing a preferred embodiment of a container closure constituted in accordance with a first aspect of the present invention, in an as-molded state (a state in which an outer lid is pivoted 180 degrees from a closed state).

FIG. 2 is a sectional view taken on line II-II of FIG. 1.

FIG. 3 is a sectional view taken on line of FIG. 1.

FIG. 4 is a partial front view illustrating a raised portion in the container closure of FIG. 1.

FIG. 5 is a partial side view showing the collaborative action of a stop projection of an inner lid and a receiving projection of the raised portion in the container closure of FIG. 1.

FIG. 6 is a side view showing the state of the container closure of FIG. 1 in which the outer lid has been somewhat pivoted from an open position toward a closed position.

FIG. 7 is a side view showing the state of the container closure of FIG. 1 in which the outer lid has been somewhat pivoted from the state shown in FIG. 6 further toward the closed position.

FIG. 8 is a side view showing the state of the container closure of FIG. 1 in which the outer lid has been somewhat pivoted from the state shown in FIG. 7 further toward the closed position.

FIG. 9 is a side view showing the state of the container closure of FIG. 1 somewhat pivoted from the closed position toward the open position.

FIG. 10 is a side view showing the state of the container closure of FIG. 1 in which the outer lid has been somewhat pivoted from the state shown in FIG. 9 further toward the open position.

FIG. 11 is a side view showing the state of the container closure of FIG. 1 in which the outer lid has been somewhat pivoted from the state shown in FIG. 10 further toward the open position.

FIG. 12 is a plan view showing another embodiment of the container closure constituted in accordance with the first aspect of the present invention, in an as-molded state.

FIG. 13 is a front view showing the container closure of FIG. 12 partly in cross section.

FIG. 14 is a sectional view taken on line XIV-XIV of FIG. 12.

FIG. 15 is a right side view showing a preferred embodiment of a container closure constituted in accordance with a second aspect of the present invention, partly in cross section, in a state in which an outer lid is located at an open position.

FIG. 16 is a left side view showing the container closure of FIG. 15 partly in cross section.

FIG. 17 is a sectional view of a body in the container closure shown in FIG. 15.

FIGS. 18(a) to 18(d) are front views showing behaviors of the container closure shown in FIG. 15 when the outer lid is pivotally moved from a closed position to the open position.

FIGS. 19(a) to 19(d) are front views showing behaviors of the container closure shown in FIG. 15 when the outer lid is pivotally moved from the open position to the closed position.

MODE FOR CARRYING OUT THE INVENTION

Preferred embodiments of a container closure constituted according to the present invention will now be described in further detail with reference to the accompanying drawings.

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With reference to FIGS. 1 to 3 showing, in the as-molded state, the preferred embodiment of the container closure constituted in accordance with a first aspect of the present invention, the container closure designated generally as the numeral 2 includes a body and an outer lid integrally molded from a suitable synthetic resin such as polyethylene or polypropylene. The body has an upper surface wall, circular in a plan view, and a cylindrical side wall 10 of a nearly cylindrical shape extending downwardly from the peripheral edge of the upper surface wall 8. An outer peripheral edge part of the upper surface wall 8 is projected upward radially outwardly. An annular shoulder surface 12 directed upward is formed in an outermost peripheral edge part of the upper surface wall 8. An annular stop ridge 14 protruding radially outwardly is formed in an upper end part of the upper surface wall 8. The cylindrical side wall 10 hangs down substantially vertically, and has an outer peripheral surface of a cylindrical shape. An upper annular ridge 16 protruding radially inwardly is formed in an upper part of the inner peripheral surface of the cylindrical side wall 10, while a lower annular ridge 18 protruding radially inwardly is formed in a lower part of the inner peripheral surface of the cylindrical side wall 10. The amount of radially inward protrusion of the upper annular ridge 16 is relatively small, whereas the amount of radially inward protrusion of the lower annular ridge 18 is relatively large. An annular sealing piece 20 extending out downwardly from a position somewhat radially inward of the cylindrical side wall 10 is formed on the lower surface of the upper surface wall 8.

With further reference to FIG. 4 along with FIGS. 1 to 3, a raised portion 22 rising upward is disposed in a middle part of the upper surface wall 8. In the illustrated embodiment, the raised portion 22 is in the shape of a rectangular parallelepiped, and has four side walls extending substantially vertically, namely, opposite side walls 24a and 24b and opposite end walls 26a and 26b, and a top surface wall 28 extending substantially horizontally. As clearly illustrated in FIG. 3, circular openings 30a and 30b are formed in the opposite side walls 24a and 24b, respectively, and discharge tubes 32a and 32b of a cylindrical shape extending substantially horizontally from outer peripheral parts of the circular openings 30a and 30b are annexed to the opposite side walls 24a and 24b. Circular openings present at the leading ends of the discharge tubes 32a and 32b define discharge ports 34a and 34b. As will be clearly understood by reference to FIG. 3, a barrier wall 36 hanging down substantially vertically from a middle part of the inner surface of the top surface wall 28 is disposed within the raised portion 22. Opposite edges of the barrier wall 36 are connected to the opposite end walls 26a and 26b of the raised portion 22, and the space within the raised portion 22 is halved by the barrier wall 36. Thus, the openings 30a and 30b formed in the opposite side walls 24a and 24b, accordingly, the discharge tubes 32a and 32b and the discharge ports 34a and 34b present at their leading ends, are cut off from each other by the barrier wall 36.

Inner lids 38a and 38b are annexed, respectively, to the discharge tubes 32a and 32b disposed in the raised portion 22. In more detail, as will be clearly understood by reference to FIGS. 3 and 4, connecting pieces 40a and 40b protruding upward are formed on the upper surfaces of the discharge tubes 32a and 32b, and the inner lids 38a and 38b are connected to the discharge tubes 32a and 32b via the connecting pieces 40a and 40b. Thin-walled hinges 42a and 42b, which extend substantially horizontally, in a direction perpendicular to the sheet face in FIG. 3, and in a lateral direction in FIG. 4, are formed in the connecting pieces 40a and 40b constituting hinge means (second hinge means). The inner lids 38a and

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38b can be pivoted, about the thin-walled hinges 42a and 42b as the pivot centers, between an open position indicated by solid lines in FIGS. 3 and 4 and a closed position indicated by dashed double-dotted lines in FIG. 3. Each of the inner lids 38a and 38b is a nearly rectangular plate piece, and annular sealing protruding pieces 44a and 44b are formed on their inner surfaces. When the inner lids 38a and 38b are brought to the closed position, the annular sealing protruding pieces 44a and 44b are inserted into the discharge tubes 32a and 32b, whereby the discharge ports 34a and 34b are sealed. Stop projections 46a and 46b are formed in both side parts of the inner surfaces of the inner lids 38a and 38b and, correspondingly, receiving projections 48a and 48b protruding from both sides of the connecting pieces 40a and 40b are formed in the discharge tubes 32a and 32b. As will be clearly illustrated in FIG. 5, the receiving projections 48a and 48b each have an inclined surface, which inclines forwardly downwardly, in a boundary region between the upper surface thereof extending substantially horizontally and the front surface thereof extending substantially vertically. When the inner lids 38a and 38b are pivoted from the closed position indicated by the dashed double-dotted lines to the open position indicated by the solid lines, the stop projections 46a and 46b resiliently ride over the receiving projections 48a and 48b, and the stop projections 46a, 46b and the receiving projections 48a, 48b act collaboratively, more detailedly, the outer surfaces of lower end parts of the stop projections 46a, 46b contact the inclined surfaces of the receiving projections 48a, 48b, whereby the inner lids 38a, 38b are resiliently held at the open position. When the inner lids 38a and 38b are pivoted from the open position to the closed position, the stop projections 46a and 46b resiliently ride over the receiving projections 48a and 48b.

With further reference to FIGS. 1 to 3, the outer lid 6 has a top panel wall 50 and a cylindrical skirt wall 52 extending downwardly from the peripheral edge of the top panel wall 50. A main part of the top panel wall 50 is circular in a plan view, but an arcuate protruding piece 54 (FIG. 2) over which a finger can be hooked during the opening or closing motion of the outer lid 6 is annexed to a predetermined angular region of the top panel wall 50. The skirt wall 52 has a cylindrical upper part 56 of a relatively small diameter, a truncated cone-shaped intermediate part 58, and a cylindrical lower part 60 of a relatively large diameter. An annular stop ridge 62 protruding radially inwardly is formed in a lower end part of the inner peripheral surface of the skirt wall. As will be clearly illustrated in FIGS. 1 and 2, a predetermined angular region at the lower end of the outer peripheral surface of the skirt wall 52 of the outer lid 6 is connected to a predetermined angular region at the upper end of the outer peripheral surface of the cylindrical side wall 10 of the body 4 via a hinge means 64 (first hinge means). The hinge means 64, which may be of a well-known shape per se, has a thin-walled hinge 66 extending in a direction perpendicular to the sheet face of FIG. 2. The outer lid 6 is free to move pivotally, between an open position illustrated in FIGS. 1 to 3 and a closed position indicated by dashed double-dotted lines in FIG. 3, about a pivot axis (a first pivot axis) which is defined by the thin-walled hinge 66 and which extends substantially horizontally. When the outer lid 6 is located at the open position illustrated in FIGS. 1 to 3, the upper surface wall 8 of the body 4 is exposed. When the outer lid 6 is pivoted to the closed position indicated by the dashed double-dotted lines in FIG. 3, the upper surface wall 8 of the body 4 is covered with the outer lid 6. As will be clearly illustrated in FIG. 6, when the outer lid 6 is located at the closed position, the lower end surface of the skirt wall 52 of the outer lid 6 is brought into contact with the

annular shoulder surface **12** present in the outermost peripheral edge part of the upper surface wall **8** of the body **4**, and the annular stop ridge **62** formed on the inner peripheral surface of the skirt wall **52** of the outer lid **6** is resiliently locked to the annular stop ridge **14** formed in the upper end part of the upper surface wall **8** of the body **4**, whereby the outer lid **6** is held resiliently at the closed position.

With further reference to FIGS. **1** and **2**, interference means **68a** and **68b** and pressing means **70a** and **70b** are further disposed in the outer lid **6** in correspondence with the inner lids **38a** and **38b** disposed in the body **4**. In the illustrated embodiment, each of the interference means **68a** and **68b** is composed of a tongue-shaped piece extending out radially inwardly from a predetermined angular position on the inner peripheral surface of a lower part **60** of the skirt wall **52**. Such a tongue-shaped piece is extended in a downwardly inclined manner away from the pivot axis defined by the thin-walled hinge **66** when the outer lid **6** is located at the closed position indicated by the dashed double-dotted lines in FIG. **3**. Each of the pressing means **70a** and **70b** is composed of three plate-shaped pieces protruding in the radial direction from the inner peripheral surface of the upper part **56** and the intermediate part **58** of the skirt wall **52**. The three plate-shaped pieces are extended parallel to each other and substantially vertically, and their upper edges are connected to the inner surface of the top panel wall **50**. It is important for the interference means **68a** and **68b** and the pressing means **70a** and **70b** to have dimensions and positions of disposition set so as to perform opening and closing actions and a pressing action, as will be described later, on the inner lids **38a** and **38b** of the body **4**.

FIGS. **2** and **3** also illustrate a mouth-and-neck portion **72** of a container to which the container closure **2** is to be applied. The mouth-and-neck portion **72** of the container, which can be formed from a suitable synthetic resin such as polyethylene terephthalate, is in a cylindrical shape as a whole, and its top surface is open. An annular stop jaw portion **74** is formed in an upper part of the outer peripheral surface of the mouth-and-neck portion **72**, which may itself be of a well-known shape. An annular ridge **76** located downwardly of the stop jaw portion **74** is further disposed on the outer peripheral surface of the mouth-and-neck portion **72**. The annular ridge **76** is utilized for the transport of the container, and is generally called a support ring. By accommodating the mouth-and-neck portion **72** between the cylindrical side wall **10** and the annular sealing piece **20** of the body **4**, the container closure **2** is mounted on the mouth-and-neck portion **72** of the container. The lower annular ridge **16** formed on the inner peripheral surface of the cylindrical side wall **10** resiliently rides over the stop jaw portion **74** of the mouth-and-neck portion **72**, and the stop jaw portion **74** formed in the mouth-and-neck portion **72** is positioned between the upper annular ridge **16** and the lower annular ridge **18** formed on the inner peripheral surface of the cylindrical side wall **10**. The annular sealing piece **20** of the body **4** advances into the mouth-and-neck portion **72**, and makes close contact with the inner peripheral surface of the mouth-and-neck portion **72**.

The above-described container closure **2** exhibits the following actions and effects: As will be understood by reference to FIGS. **6** to **8**, when the outer lid **6** is moved pivotally from the open position toward the closed position, the interference means **68a** and **68b** disposed in the outer lid **6** gradually approach the inner lids **38a** and **38b** disposed in the body **4** in accordance with the pivoting of the outer lid **6** (FIG. **6**). Upon pivoting to a predetermined angle, the interference means **68a** and **68b** contact the outer surfaces of the inner lids **38a** and **38b**. When the outer lid **6** is further pivoted, the inner lids **38a** and **38b** are forcibly pivoted from the open position

toward the closed position by the interferential action of the interference means **68a** and **68b** (FIG. **7**). Then, the interference means **68a** and **68b** are separated from the inner lids **38a** and **38b** (FIG. **8**). Upon separation of the interference means **68a** and **68b** from the inner lids **38a** and **38b**, the inner lids **38a** and **38b** somewhat return toward the open position resiliently. However, when the outer lid **6** is further pivoted toward the closed position, the pressing means **70a** and **70b** disposed in the outer lid **6** act on the outer surfaces of the inner lids **38a** and **38b** to pivot the inner lids **38a** and **38b** forcibly to the closed position. When the outer lid **6** is pivoted to the closed position, the inner lids **38a** and **38b** are forced into the closed position by the pressing action of the pressing means **70a** and **70b**. As a result, the discharge ports **34a** and **34b** disposed at the leading ends of the discharge tubes **32a** and **32b** are reliably closed, and the inner lids **38a** and **38b** are held at the closed position by the pressing action of the pressing means **70a** and **70b** (FIG. **3**).

When the outer lid **6** is pivoted from the closed position toward the open position, on the other hand, the pressing means **70a** and **70b** are initially separated from the outer surfaces of the inner lids **38a** and **38b** in accordance with the pivoting of the outer lid **6**, as will be understood by reference to FIGS. **9** to **11**. Then, the interference means **68a** and **68b** contact the leading edges or inner surfaces of the inner lids **38a** and **38b** to start interfering with the inner lids **38a** and **38b**. In accordance with the pivoting of the outer lid **6**, the inner lids **38a** and **38b** are pivoted from the closed position toward the open position by the action of the interference means **68a** and **68b** (FIGS. **9** and **10**). When the outer lid **6** is further pivoted, the interference means **68a** and **68b** are separated from the inner lids **38a** and **38b** brought to the open position (FIG. **11**).

In a state where the outer lid **2** is located at the open position and the inner lids **38a** and **38b** are located at the open position (the state shown by the solid lines in FIG. **3**), when the container is tilted in a required direction to direct downwardly one of the discharge ports **34a** and **34b** disposed at the leading ends of the discharge tubes **32a** and **32b**, the contents accommodated within the container, such as soy sauce, can be discharged through the one of the discharge ports **34a** and **34b**. In accordance with the discharge of the contents through the one of the discharge ports **34a** and **34b**, air flows into the container through the other of the discharge ports **34a** and **34b**, whereby discharge of the contents is promoted.

FIGS. **12** to **14** illustrate another embodiment of the container closure constituted in accordance with the present invention. In a body **104** of a container closure **102** shown in FIGS. **12** to **14**, opposite side walls **124a** and **124b** of a raised portion **122** are inclined downwardly and outwardly in a lateral direction in FIG. **14** (i.e., bilaterally outwardly in the direction of the pivot axis of an outer lid **106** with respect to the body **104**). Opposite end walls **126a** and **126b** of the raised portion **122** are also slightly inclined downwardly and outwardly in the lateral direction in FIG. **13**. Cylindrical discharge tubes **132a** and **132b** extending out from the opposite side walls **124a** and **124b** are inclined upwardly. The relative relationship between the discharge tubes **132a**, **132b** and inner lids **138a**, **138b** is substantially the same as that in the case of the body illustrated in FIGS. **1** to **5**. No barrier wall is disposed within the raised portion **122**, so that the space within the raised portion **122** is not divided in two. The body **104** is substantially the same as the body **4** shown in FIGS. **1** to **5**, except for the above-mentioned configuration. Needless to say, a barrier wall can be disposed where necessary.

In the outer lid **106** of the container closure **102** shown in FIGS. **12** to **14**, the positions of disposition of interference

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means **168a** and **168b** and pressing means **170a** and **170b** are somewhat different from those of the outer lid **6** shown in FIGS. **1** to **5**, in conformity with the configuration in which the inner lids **138a** and **138b** of the body **104** are disposed on the discharge tubes **132a** and **132b** extending out upwardly obliquely. In the outer lid **106**, moreover, a top panel wall **150** is in a flat circular form, and an arcuate protruding piece **154** over which a finger can be hooked during the pivoting of the outer lid **106** is annexed to a required angular region at the lower end of a skirt wall **152**, rather than on the top panel wall **150**. The skirt wall **152** has a truncated cone-shaped upper part **156** and a cylindrical lower part **160**, and an annular shoulder portion **158** is formed on the boundary between the upper part **156** and the lower part **160**. The outer lid **106** is substantially the same as the outer lid **6** shown in FIGS. **1** to **5**, except for the above-mentioned configuration.

Behaviors of the container closure **102** shown in FIGS. **12** to **14** when the outer lid **106** is moved for an opening or closing operation are substantially the same as those of the container **2** shown in FIGS. **1** to **5**. Thus, their explanation will be omitted.

With reference to FIGS. **15** and **16**, a container closure designated generally as the numeral **202**, constituted in accordance with a second aspect of the present invention, can be integrally injection-molded from a suitable synthetic resin such as polyethylene or polypropylene, and is composed of a body **204** and an outer lid **206**.

The body **204** has an upper surface wall **208**, circular in a plan view, and a cylindrical side wall **210** extending downwardly from the peripheral edge of the upper surface wall **208**. An annular ridge **212** protruding upward is formed in an outer peripheral edge part of the upper surface of the upper surface wall **208**. An annular stop groove **214** is formed in a lower part of the outer peripheral surface of the annular ridge **212**. An inner peripheral surface of the annular ridge **212** is inclined downwardly in a radially inward direction. A cylindrical sealing ridge **216** protruding downward is formed at the outer peripheral edge of the lower surface of the upper surface wall **208**. An annular small ridge **218** is formed in an upper part of the inner peripheral surface of the side wall **210**, and an annular stop ridge **220** is formed in a lower part of the inner peripheral surface of the side wall **210**.

With further reference to FIG. **17** along with FIGS. **15** and **16**, a discharge tube **222** rising upward is formed in the upper surface wall **208** of the body **204**. The discharge tube **222** in the illustrated embodiment extends out substantially parallel to a first pivot axis to be described later, namely, in a direction perpendicular to the sheet face of FIG. **15**, and leftward in FIG. **3**. In further detail, the illustrated discharge tube **222** has a base portion **224** and a leading end portion **226**. The base portion **224** is defined by a pair of side wall portions **228** protruding upward substantially vertically, a rear wall portion **230** extending in a nearly concave arcuate shape, a front wall portion **232** extending substantially vertically, and an upper wall portion **234** extending leftward in an upwardly inclined manner in FIG. **17**. A through-hole **236** which may be circular is formed in an upper part of the front wall portion **232**. The leading end portion **226** of the discharge tube **222** is defined by a cylindrical protruding tubular portion **238** protruding substantially horizontally from the front wall portion **232** of the base portion **224** and leftwardly in FIG. **17**. The internal diameter of the protruding tubular portion **238** coincides with the internal diameter of the through-hole **236**. A circular discharge port **240** is formed at the leading end of the protruding tubular portion **238**. A bearer **242** is formed between the base portion of the discharge tube **222** and the annular ridge **212**, and the upper surface of the bearer **242** extends

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substantially horizontally. In the illustrated embodiment, the discharge tube **222** is extended out leftward in FIG. **17**, but if desired, can be extended out rightward in FIG. **17**. The discharge tube **222** is extended out substantially parallel to the aforementioned first pivot axis, but if desired, can be inclined at an angle of α , $0 \text{ degrees} < \alpha \leq 45 \text{ degrees}$, in a direction in which the discharge tube **222** gradually separates from the first pivot axis toward the leading end.

An inner lid **246** is connected via a hinge means **244** to the upper surface of the protruding tubular portion **238** of the discharge tube **222**. Such an inner lid **246** is free to move between an open position indicated by solid lines in FIGS. **15** to **17** and a closed position indicated by dashed double-dotted lines in FIG. **17** (the movement of the inner lid **246** will be further mentioned later). The inner lid **246** is composed of a laterally elongated plate-shaped piece jutting out beyond the protruding tubular portion **238** of the discharge tube **222**, and has an arcuate upper edge. A circular seal ring **248** is formed in a middle part in the width direction of the inner surface of the inner lid **246**. The external diameter of the seal ring **248** is substantially the same as the internal diameter of the protruding tubular portion **238** of the discharge tube **222** and, when the inner lid **246** is brought to the closed position, the seal ring **248** is fitted into the protruding tubular portion **238** to seal the leading end of the protruding tubular portion **238**. Stop projections **250** are formed in opposite side parts of the base end of the inner surface of the inner lid **246** (i.e., lower end in FIGS. **15** to **17**). Such stop projections **250** have flat stop surfaces located at the lowermost position, with the inner lid **246** being located at the open position.

An extending-out piece **254** extending out upwardly and bilaterally is formed on the upper surface of the discharge tube **222**, and receiving projections **256** as a pair are formed with spacing in the width direction (lateral direction in FIGS. **15** and **16**) in the extending-out pieces **254**. The receiving projections **256** have receiving surfaces which are preferably inclined forwardly downwardly (for the details of the receiving projection **256** and the stop projection **250**, reference is requested to the aforementioned Patent Document 3). The hinge means **244** is disposed between the base end of the inner lid **246** and the leading end (upper end in FIGS. **15** and **16**) of the extending-out piece **254**. The hinge means **244** includes a middle hinge piece **244a** disposed in a widthwise middle part (accordingly, between the paired receiving projections **256**), and bilateral hinge pieces **244b** disposed widthwise outwardly of the paired receiving projections **256**. The middle hinge piece **244a** and the bilateral hinge pieces **244b** are arranged horizontally in a straight line to constitute a thin-walled line, and the inner lid **246** is pivotally moved about the thin-walled line as a pivot center line. If desired, the bilateral hinge pieces **244b** can be omitted.

With further reference to FIGS. **15** and **16**, the outer lid **206** has a top panel wall **260** and a cylindrical skirt wall **262** extending downwardly from the peripheral edge of the top panel wall **260**. A middle part of the top panel wall **260** is bulged out somewhat upwardly. A flange **264** protruding radially outwardly in a predetermined angular region is annexed to the top panel wall **260**. As will be clearly understood by reference to FIGS. **18(a)** to **18(d)** along with FIGS. **15** and **16**, the outer peripheral edge of the flange **264** is arc-shaped, and the lower surface of the flange **264** is also arc-shaped. In the illustrated embodiment, the skirt wall **262** has a cylindrical upper part **266**, a truncated cone-shaped intermediate part **268**, and a cylindrical lower part **270** (the terms "upper" and "lower" for the outer lid **206** mean upper and lower positions in the state of the outer lid **206** located at the closed position indicated by the dashed double-dotted

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lines in FIG. 16). A hinge means designated generally as the numeral 272 is disposed between the lower end of the outer peripheral surface of the skirt wall 262 of the outer lid 206 and the side wall 210 of the body 204 (the hinge means 272 constitutes a first hinge means, and its pivot axis constitutes the aforementioned first pivot axis). The outer lid 206 is connected to the body 204 via the hinge means 272 mentioned above, and the outer lid 206 is pivotally moved between an open position indicated by solid lines in FIGS. 15 and 16 and the closed position indicated by the dashed double-dotted lines in FIG. 16 (the pivotal movement of the outer lid 206 will be further mentioned later). The hinge means 272 may be of a well-known form per se, and thus an explanation for the configuration of the hinge means 272 is omitted.

A stop ridge 274 extending arcuately, except in the region where the hinge means 272 exists, is formed in a lower end part of the inner peripheral surface of the lower part 270 of the skirt wall 262. Further, an interference means 276 is also disposed on the inner peripheral surface of the skirt wall 262. In the illustrated embodiment, the interference means 276 is composed of a tongue-shaped piece 278 protruding radially inwardly from the inner peripheral surface of the lower part 270 of the skirt wall 262 at a site spaced from the hinge means 272 at an angle of about 100 degrees. Such a tongue-shaped piece 278 is located slightly above the stop ridge 274, and extends in a downwardly inclined manner, at a predetermined angle optionally of the order of 30 degrees, away from the above-mentioned first pivot axis when the outer lid 206 is located at the closed position indicated by the dashed double-dotted lines in FIG. 17. If desired, instead of inclining the tongue-shaped piece 278, it is permissible to incline the pivot axis of the hinge means 244 constituting the second hinge means, i.e., the second pivot axis, upwardly at a predetermined inclination angle away from the first pivot axis. A pressing means 280 is also disposed on the inner peripheral surface of the skirt wall 262. In the illustrated embodiment, the pressing means 280 is composed of three pressing pieces 282 protruding, with spacing in the circumferential direction, from the inner peripheral surface of the upper part 266 of the skirt wall 262 and a peripheral edge part of the inner surface of the top panel wall 260 at a site spaced from the hinge means 272 at an angle of about 90 degrees. Each of the pressing pieces 282 is extended substantially vertically, and a lower end part of the protruding edge of each pressing piece is inclined downwardly outwardly. If desired, the pressing means 280 can be composed of a single wide pressing piece extending uninterruptedly in the width direction.

The above-mentioned container closure 202 is applied preferably to a mouth-and-neck portion 284 of a container accommodating a liquid such as an edible oil or a liquid seasoning. When the container closure 202 is to be mounted on the mouth-and-neck portion 284 of the container, an upper end part of the mouth-and-neck portion of the container is inserted into an annular space between the side wall 210 and the sealing ridge 216 of the body 204, and the mouth-and-neck portion is sealed with the sealing ridge 216 advancing into the mouth-and-neck portion.

When the outer lid 206 is located at the closed position indicated by the dashed double-dotted lines in FIG. 16, the stop ridge 274 formed in the lower end part of the inner peripheral surface of the skirt wall 262 of the outer lid 206 is engagingly stopped by the stop groove 214 formed in the lower part of the outer peripheral surface of the annular ridge 212 of the body 204, whereby the outer lid 206 is maintained at the closed position. When the outer lid 206 is located at the closed position, moreover, the pressing means 280 contacts the outer surface of the inner lid 246 (namely, the surface

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opposite to the surface on which the seal ring 248 is formed) to force the inner lid 246 into the closed position, thus sealing the discharge port 240 of the discharge tube 222 fully reliably.

When the contents accommodated in the container having the container closure 202 mounted thereon are to be consumed, a finger is hooked on the flange 264 annexed to the top panel wall 260 of the outer lid 206 to pivotally move the outer lid 206 from the closed position indicated by the dashed double-dotted lines in FIG. 16 toward the open position indicated by the solid lines in FIGS. 15 and 16. With further reference to FIGS. 18(a) to 18(d) along with FIGS. 15 and 16, when the outer lid 206 is moved, for opening, from the position illustrated in FIG. 18(a) to the position illustrated in FIG. 18(b), the pressing means 280 is separated from the outer surface of the inner lid 246, and the interference means 276 formed on the inner peripheral surface of the skirt wall 262 of the outer lid 206 contacts the lower surface of the inner lid 246 to begin interfering with the inner lid 246. Then, when the outer lid 206 is moved, for opening, from the position illustrated in FIG. 18(b) to the position illustrated in FIG. 18(c), the stop projections 250 disposed on the inner lid 246 to be opened in association with the opening movement of the outer lid 206 resiliently ride over the receiving projections 256 disposed in the discharge tube 222. When the outer lid 206 is further moved, for opening, to the position illustrated in FIG. 18(d), the inner lid 246 is also further moved for opening attentantly. When the outer lid 206 is further moved, for opening, beyond the position illustrated in FIG. 18(d), however, the interference means 276 of the outer lid 206 is separated from the inner lid 246. Upon separation of the interference means 276 of the outer lid 206 from the inner lid 246, the inner lid 246 tends to be resiliently moved for closing toward the closed position. However, the stop surfaces of the stop projections 250 of the inner lid 246 contact the receiving surfaces of the receiving projections 256 disposed in the discharge tube 222. As a result, the closing movement of the inner lid 246 is inhibited, and the inner lid 246 is maintained at the open position.

As noted above, when the outer lid 206 is moved for opening, the inner lid 246 is moved for opening in accordance with this movement. Thus, the consumer can discharge the contents of the container through the discharge tube 222 without the need to hook his or her finger on the inner lid 246 itself and move it for opening. In the container closure 202 constituted in accordance with the present invention, in particular, the discharge tube 222 is extended along the first pivot axis, namely, the pivot axis of the hinge means 272. Thus, when the container is grasped with the right hand and the outer lid 206 is moved for opening from the closed position to the open position with the use of the left hand, for example, the discharge port 240 disposed at the leading end of the discharge tube 222 points in a direction nearly orthogonal to the left wrist. Hence, the right wrist may be rotated rightward (rotated leftward if the direction of extension of the discharge tube 222 is opposite to that in the illustrated embodiment), without the need to release the grasp of the container once and grasp the container again. By so doing, the discharge port 240 can be directed downward to discharge the contents through the discharge port 240.

After the consumption of the contents is completed, the outer lid 206 is moved pivotally from the open position illustrated in FIGS. 15 and 16 to the closed position indicated by the dashed double-dotted lines in FIG. 16. With further reference to FIGS. 19(a) to 19(d) along with FIGS. 15 and 16, when the outer lid 206 is moved, for closing, to the position illustrated in FIG. 19(a), the interference means 276 formed on the skirt wall 262 of the outer lid 206 contacts the outer

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surface of the inner lid **246**, which is located at the open position, to begin interfering with the inner lid **246**. Then, when the outer lid **206** is moved, for closing, from the position illustrated in FIG. **19(a)** to the position illustrated in FIG. **19(b)**, the inner lid **246** is also moved for closing in accordance with the closing motion of the outer lid **206**, and the stop projections **250** disposed on the inner lid **246** resiliently ride over the receiving projections **256** disposed in the discharge tube **222**. When the outer lid **206** is moved, for closing, from the position illustrated in FIG. **19(b)** to the position illustrated in FIG. **19(c)**, the inner lid **246** is also moved for closing attendantly. The inner lid **246** is once brought to the closed position at which it seals the discharge port **240** of the discharge tube **222**. After the interference means **276** of the outer lid **206** is separated from the inner lid **246**, however, the inner lid **246** tends to be somewhat pivoted in the opening direction owing to its resilient restoring action, as shown in FIG. **19(c)**. However, when the outer lid **206** is moved for closing to the closed position shown in FIG. **19(d)**, the pressing means **280** disposed on the outer lid **206** contacts the outer surface of the inner lid **246** to force the inner lid **246** into the closed position. Moreover, the stop ridge **274** formed in the outer lid **206** is engagingly stopped by the stop groove **214** fainted in the annular ridge **212** of the body **204**, whereby the outer lid **206** is held at the closed position.

EXPLANATIONS OF LETTERS OR NUMERALS

2: Container closure
 4: Body
 6: Outer lid
 8: Upper surface wall of body
 10: Cylindrical side wall of body
 22: Raised portion
 24a: Side wall of raised portion
 24b: Side wall of raised portion
 32a: Discharge tube
 32b: Discharge tube
 34a: Discharge port
 34b: Discharge port
 36: Barrier wall
 38a: Inner lid
 38b: Inner lid
 46a: Stop projection
 46b: Stop projection
 48a: Receiving projection
 48b: Receiving projection
 50: Top panel wall of outer lid
 52: Skirt wall of outer lid
 68a: Interference means
 68b: Interference means
 70a: Pressing means
 70b: Pressing means
 72: Mouth-and-neck portion of container
 102: Container closure
 104: Body
 106: Outer lid
 122: Raised portion
 124a: Side wall of raised portion
 124b: Side wall of raised portion
 132a: Discharge tube
 132b: Discharge tube
 138a: Inner lid
 138b: Inner lid
 150: Top panel wall of outer lid
 152: Skirt wall of outer lid
 202: Container closure

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204: Body
 206: Outer lid
 208: Upper surface wall of body
 210: Side wall of body
 222: Discharge tube
 244: Hinge means (second hinge means)
 246: Inner lid
 260: Top panel wall of outer lid
 262: Skirt wall of outer lid
 272: Hinge means (first hinge means)
 276: Interference means
 280: Pressing means

The invention claimed is:

1. A container closure integrally formed from a synthetic resin and including a body, which has an upper surface wall and a cylindrical side wall extending downwardly from a peripheral edge of the upper surface wall, and an outer lid, which has a top panel wall and a cylindrical skirt wall extending downwardly from a peripheral edge of the top panel wall, wherein the skirt wall of the outer lid and the side wall of the body are connected via first a hinge which defines

a first pivot axis extending horizontally, and the outer lid is free to pivot, about the first pivot axis as a pivot center, between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is exposed; and a raised portion which rises upward and which has discharge ports formed on opposite sides thereof in a direction of the first pivot axis is disposed in a middle part of the upper surface wall of the body,

wherein inner lids are connected to the raised portion via a second hinge, in association with the discharge ports, respectively, so as to be pivotable between a closed position at which the discharge ports are covered and an open position at which the discharge ports are opened; interference members are disposed on an inner peripheral surface of the skirt wall of the outer lid, in association with the inner lids, respectively, such that the interference members interfere with the inner lids to pivot the inner lids from the open position toward the closed position while the outer lid is being pivoted from the open position to the closed position, and then the interference members ride over the inner lids and become separated from the inner lids, and that the interference members interfere with the inner lids to pivot the inner lids from the closed position toward the open position while the outer lid is being pivoted from the closed position to the open position, and then the interference members are separated from the inner lids, and

a barrier wall hanging down from a middle of an inner surface of an upper end wall of the raised portion to cut off from each other the discharge ports formed on the opposite sides of the raised portion in the direction of the first pivot axis is formed in the raised portion.

2. The container closure according to claim 1, wherein each of the interference members comprises a tongue-shaped piece protruding radially inwardly from the inner peripheral surface of the skirt wall of the outer lid, and extending in a downwardly inclined manner away from the first pivot axis.

3. The container closure according to claim 1, wherein pressing members are disposed on the inner peripheral surface of the skirt wall of the outer lid, in association with the inner lids, respectively, such that the pressing members contact outer surfaces of the inner lids to force the inner lids into the closed position while the outer lid is being pivoted from the open position to the closed position.

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4. The container closure according to claim 1, wherein the raised portion has opposite side walls on the opposite sides thereof in the direction of the first pivot axis, the opposite side walls extending vertically, and the discharge ports are defined at leading ends of discharge tubes protruding horizontally from the opposite side walls, respectively.

5. The container closure according to claim 1, wherein stop projections are formed in opposite side parts of an inner surface of the inner lid, receiving projections as a pair are formed in the raised portion in correspondence with the stop projections, and the stop projections resiliently ride over the receiving projections when the inner lid is pivoted from the closed position to the open position.

6. A container closure integrally formed from a synthetic resin and including a body, which has an upper surface wall and a cylindrical side wall extending downwardly from a peripheral edge of the upper surface wall, and an outer lid, which has a top panel wall and a cylindrical skirt wall extending downwardly from a peripheral edge of the top panel wall, wherein the skirt wall of the outer lid and the side wall of the body are connected via first a hinge which defines

a first pivot axis extending horizontally, and the outer lid is free to pivot, about the first pivot axis as a pivot center, between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall of the body is exposed; and a raised portion which rises upward and which has discharge ports formed on opposite sides thereof in a direction of the first pivot axis is disposed in a middle part of the upper surface wall of the body,

wherein inner lids are connected to the raised portion via a second hinge, in association with the discharge ports, respectively, so as to be pivotable between a closed position at which the discharge ports are covered and an open position at which the discharge ports are opened; interference members are disposed on an inner peripheral surface of the skirt wall of the outer lid, in association with the inner lids, respectively, such that the interference members interfere with the inner lids to pivot the inner lids from the open position toward the closed position while the outer lid is being pivoted from the open position to the closed position, and then the interference members ride over the inner lids and become separated from the inner lids, and that the interference members interfere with the inner lids to pivot the inner lids from the closed position toward the open position while the outer lid is being pivoted from the closed position to the open position, and then the interference members are separated from the inner lids,

wherein the raised portion has opposite side walls on the opposite sides thereof in the direction of the first pivot axis, the opposite side walls extending downwardly and

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being inclined bilaterally outwardly in the direction of the first pivot axis, and the discharge ports are defined at leading ends of discharge tubes, the discharge tubes extending out upwardly from the opposite side walls, respectively, and being inclined bilaterally outwardly in the direction of the first pivot axis.

7. A container closure integrally formed from a synthetic resin and including a body, which has an upper surface wall and a cylindrical side wall extending downwardly from a peripheral edge of the upper surface wall, and an outer lid, which has a top panel wall and a cylindrical skirt wall extending downwardly from a peripheral edge of the top panel wall, wherein the skirt wall of the outer lid and the side wall of the body are connected via a first hinge which defines a first pivot axis extending horizontally; the outer lid is free to pivot between a closed position at which the upper surface wall of the body is covered and an open position at which the upper surface wall is exposed; a discharge tube having a discharge port formed at a leading end thereof is disposed on the upper surface wall of the body; an inner lid is connected to an upper surface of the discharge tube via a second hinge, which defines a second pivot axis, so as to be pivotable between a closed position at which the discharge port is covered and an open position at which the discharge port is opened; and an interference member is disposed on an inner peripheral surface of the skirt wall of the outer lid such that the interference member interferes with the inner lid to move the inner lid pivotally from the closed position to the open position while the outer lid is being pivoted from the closed position to the open position, and then the interference member rides over the inner lid and becomes separated from the inner lid, and that the interference member interferes with the inner lid to pivot the inner lid from the open position toward the closed position while the outer lid is being pivoted from the open position to the closed position, and then the interference member is separated from the inner lid,

wherein the discharge tube is extended out along the first pivot axis,

the discharge tube is extended out parallel to the first pivot axis, or at an inclination angle of α , $0 \text{ degrees} < \alpha \leq 45 \text{ degrees}$, in a direction in which the discharge tube gradually separates from the first pivot axis toward the leading end, and

the interference member is composed of a tongue-shaped piece protruding radially inwardly from the inner peripheral surface of the skirt wall of the outer lid, and the tongue-shaped piece extends in a downwardly inclined manner away from the first pivot axis when the outer lid is located at the closed position and/or the second pivot axis extends upwardly obliquely away from the first pivot axis.

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